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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**  
**REVOCATION AND APPOINTMENT OF POWER OF ATTORNEY**  
**STATEMENT UNDER 37 C.F.R. §3.73(b)**  
**CHANGE OF CORRESPONDENCE ADDRESS**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

RAYTHEON COMPANY states that it is the Assignee of the entire right, title and interest in the following patents and/or patent applications identified below by virtue of assignments from their respective inventor(s) and hereby revokes all previous powers and appoints the practitioners associated with customer number:

**18227**

with full power to prosecute these patents and/or patent applications including all revivals, refilings, continuations, continuations-in-part, divisions and reissues thereof, and to transact all business in the Patent Office connected therewith. The assignments have been recorded in the United States Patent and Trademark Office at the Reel and Frame numbers indicated below or for which a copy thereof is attached.

| LINE # | CANTOR COLBURN REFERENCE NO | Filing Date | Application No. | Reel/Frame  | Assignee                      |
|--------|-----------------------------|-------------|-----------------|-------------|-------------------------------|
| 1      | RAY0017US                   | 17 Jul 2003 | 10/621772       | 014970/0717 | Inventor to Raytheon Company  |
| 2      | RAY0018US                   | 12 Apr 2004 | 10/822606       | 015205/0551 | Inventors to Raytheon Company |
| 3      | RAY0019US                   | 18 Mar 2005 | 11/083380       | 016515/0971 | Inventors to Raytheon Company |
| 4      | RAY0020US                   | 18 Mar 2005 | 11/083379       | 016516/0179 | Inventors to Raytheon Company |
| 5      | RAY0021US                   | 18 Mar 2005 | 11/084496       | 016515/0978 | Inventors to Raytheon Company |
| 6      | RAY0022US                   | 12 Jul 2004 | 10/890568       | 015585/0130 | Inventors to Raytheon Company |
| 7      | RAY0023US                   | 05 Mar 2009 | 12/398235       | 022348/0182 | Inventors to Raytheon Company |
| 8      | RAY0024US                   | 15 Apr 2004 | 10/825345       | 015230/0979 | Inventors to Raytheon Company |
| 9      | RAY0025US                   | 15 Apr 2004 | 10/824874       | 015224/0545 | Inventors to Raytheon Company |
| 10     | RAY0026US                   | 15 Apr 2004 | 10/825539       | 015229/0417 | Inventors to Raytheon Company |

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|----|------------|-------------|-----------|-------------|---|
| 11 | RAY0027US  | 15 Apr 2004 | 10/826959 | 017722/0781 | Inventors to Raytheon Company   |
| 12 | RAY0028US  | 15 Apr 2004 | 10/824873 |             | Inventors to Raytheon Company<br>0152380/0480<br>Shannon V. Davidson to<br>Raytheon Company<br>016010/0960                          |
| 13 | RAY0029US  | 15 Apr 2004 | 10/825021 |             | Inventors to Raytheon Company<br>015225/0436<br>Shannon V. Davidson and<br>Anthony N. Richoux to Raytheon<br>Company<br>016414/0620 |
| 14 | RAY0030USC | 07 Oct 2008 | 12/246783 | 021661/0394 | Anthony N. Richoux to Raytheon<br>Company   |
| 15 | RAY0030US  | 17 Nov 2004 | 10/991598 | 016013/0184 | Anthony N. Richoux to Raytheon<br>Company   |
| 16 | RAY0031US  | 17 Nov 2004 | 10/991994 | 016014/0746 | Inventor to Raytheon Company  |
| 17 | RAY0032US  | 17 Nov 2004 | 10/991754 | 016009/0084 | Inventor to Raytheon Company  |
| 18 | RAY0033USD | 28 Oct 2010 | 12/914457 | 025212/0821 | Inventor to Raytheon Company  |
| 19 | RAY0033US  | 27 Aug 2007 | 11/845510 | 019750/0198 | Inventor to Raytheon Company  |
| 20 | RAY0034US  | 08 Dec 2005 | 11/297999 | 017356/0647 | Inventors to Raytheon Company   |
| 21 | RAY0185USD | 04 Feb 2008 | 12/012572 | 021942/0075 | Inventors to Raytheon Company   |
| 22 | RAY0035US  | 30 Oct 2006 | 11/554512 | 018455/0791 | Inventor to Raytheon Company  |
| 23 | RAY0036US  | 29 Dec 2006 | 11/618196 | 018694/0696 | Inventor to Raytheon Company  |
| 24 | RAY0177US  | 13 Nov 2006 | 11/559369 | 018825/0412 | Inventors to Raytheon Company   |
| 25 | RAY0037USP | 15 Apr 2011 | 13/087829 | 026136/0486 | Inventors to Raytheon Company   |
| 26 | RAY0037US  | 22 Nov 2006 | 11/562750 | 018547/0721 | Inventors to Raytheon Company   |
| 27 | RAY0038US  | 12 Jan 2007 | 11/622921 | 018759/0055 | Inventors to Raytheon Company   |
| 28 | RAY0039US  | 20 Feb 2007 | 11/676874 | 019016/0152 | Inventors to Raytheon Company   |
| 29 | RAY0040US  | 31 Oct 2006 | 11/555090 | 018461/0100 | Inventors to Raytheon Company   |
| 30 | RAY0041US  | 13 Apr 2007 | 11/786906 | 019545/0439 | Inventor to Raytheon Company  |
| 31 |            | 13 Oct 2006 | 11/549179 | 018386/0917 | Inventors to Raytheon Company   |
|    | RAY0042US2 |             |           |             |   |
| 32 |            | 28 Nov 2007 | 11/946559 | 020170/0911 | Inventors to Raytheon Company   |
|    | RAY0043US2 |             |           |             |   |
| 33 | RAY0131USC | 5 Mar 2009  | 12/398277 | 022348/0795 | Inventor to Raytheon Company  |
| 34 | RAY0044US  | 30 Oct 2007 | 11/929285 | 020039/0446 | Inventor to Raytheon Company  |
| 35 | RAY0045US2 | 03 Jan 2008 | 11/969109 | 020695/0282 | Inventor to Raytheon Company  |

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|----|------------|-------------|-----------|-------------|--|
| 36 | RAY0107US  | 27 May 2009 | 12/473044 |             | Inventors to Raytheon Company<br>023463/0505<br>Inventors to Raytheon Company<br>023544/0196 |
| 37 | RAY0113US  | 30 Jan 2009 | 12/363417 | 022183/0740 | Inventors to Raytheon Company  |
| 38 | RAY0114US  | 27 Dec 2007 | 11/965503 | 020295/0535 | Inventors to Raytheon Company  |
| 39 | RAY0115US  | 10 Apr 2008 | 12/100909 | 021128/0737 | Inventors to Raytheon Company  |
| 40 | RAY0106US2 | 29 Feb 2008 | 12/040406 | 020585/0348 | Inventors to Raytheon Company  |
| 41 | RAY0180US  | 22 Jan 2008 | 12/018021 | 020669/0298 | Inventors to Raytheon Company  |
| 42 | RAY0116US  | 18 Nov 2008 | 12/272878 | 021848/0033 | Inventors to Raytheon Company  |
| 43 | RAY0105US2 | 29 Jul 2009 | 12/511667 | 023023/0303 | Inventors to Raytheon Company  |
| 44 | RAY0117US  | 12 Dec 2008 | 12/333703 | 021972/0018 | Inventors to Raytheon Company  |
| 45 | RAY0118US  | 30 Jan 2009 | 12/362581 | 022179/0888 | Inventors to Raytheon Company  |
| 46 | RAY0104US2 | 28 Oct 2010 | 12/914493 | 025213/0106 | Inventor to Raytheon Company   |
| 47 | RAY0119US  | 14 Apr 2009 | 12/422653 | 022538/0967 | Inventors to Raytheon Company  |
| 48 | RAY0120US  | 18 Mar 2009 | 12/406690 | 022594/0642 | Inventors to Raytheon Company  |
| 49 | RAY0178US  | 24 Oct 2008 | 12/258209 |             | Inventors to Raytheon Company<br>022091/0715<br>Inventors to Raytheon Company<br>024187/0339 |
| 50 | RAY0169USC | 28 Feb 2011 | 13/036179 | 025870/0619 | Inventors to Raytheon Company  |
| 51 | RAY0169US  | 24 Oct 2008 | 12/257824 | 021795/0737 | Inventors to Raytheon Company  |
| 52 | RAY0121US  | 01 Jul 2010 | 12/828969 | 024627/0185 | Inventors to Raytheon Company  |
| 53 | RAY0103US2 | 22 May 2009 | 12/471077 | 022728/0142 | Inventor to Raytheon Company   |
| 54 | RAY0110US  | 11 Dec 2009 | 12/636148 | 023642/0678 | Inventors to Raytheon Company  |
| 55 | RAY0122US  | 14 Jan 2010 | 12/687516 | 023787/0451 | Inventors to Raytheon Company  |
| 56 | RAY0111US  | 13 Jul 2009 | 12/501905 | 022947/0394 | Inventors to Raytheon Company  |
| 57 | RAY0102US  | 13 Jul 2009 | 12/501766 | 022946/0661 | Inventors to Raytheon Company  |
| 58 | RAY0101US  | 13 Jul 2009 | 12/501969 | 022947/0750 | Inventors to Raytheon Company  |
| 59 | RAY0100US  | 13 Jul 2009 | 12/501785 | 022946/0783 | Inventors to Raytheon Company  |
| 60 | RAY0125US  | 08 May 2009 | 12/463127 | 022672/0092 | Inventors to Raytheon Company  |
| 61 | RAY0126US  | 08 May 2009 | 12/437915 |             | Inventors to Raytheon Company<br>022658/0339<br>Inventors to Raytheon Company<br>023123/0373 |
| 62 | RAY0099US  | 08 May 2009 | 12/437975 | 022780/0753 | Inventors to Raytheon Company  |
| 63 | RAY0127US  | 10 Feb 2010 | 12/703428 |             | Inventor to Raytheon Company<br>023920/0967<br>Inventor to Raytheon Company<br>024067/0485   |
| 64 | RAY0128US  | 24 Feb 2010 | 12/711391 | 023982/0150 | Inventors to Raytheon Company  |
| 65 | RAY0098US2 | 08 Apr 2010 | 12/756514 | 024206/0236 | Inventors to Raytheon Company  |
| 66 | RAY0097US  | 07 Jan 2010 | 12/683924 | 023749/0067 | Inventor to Raytheon Company   |
| 67 | RAY0096US  | 13 Jan 2010 | 12/686467 | 023771/0757 | Inventor to Raytheon Company   |

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|----|------------|-------------|-----------|-------------|---|
| 68 | RAY0095US  | 13 Jan 2010 | 12/686428 | 023771/0419 | Inventor to Raytheon Company  |
| 69 | RAY0094US  | 13 Jan 2010 | 12/686862 | 023777/0219 | Inventor to Raytheon Company  |
| 70 | RAY0129US  | 28 Jan 2010 | 12/695566 | 023865/0749 | Inventor to Raytheon Company  |
| 71 | RAY0093US  | 26 Mar 2010 | 12/732382 | 024144/0214 | Inventors to Raytheon Company   |
| 72 | RAY0092US2 | 05 May 2011 | 13/101402 | 026521/0405 | Inventor to Raytheon Company  |
| 73 | RAY0091US  | 04 Dec 2003 | 10729143  | 014780/0270 | Inventor to Raytheon Company  |
| 74 | RAY0090USC | 14 Mar 2006 | 11/375530 | 018602/0285 | Inventor to Raytheon Company  |
| 75 | RAY0090US  | 30 Dec 2003 | 10/748566 | 014865/0836 | Inventor to Raytheon Company  |
| 76 | RAY0084USC | 10 Aug 2006 | 11/501826 |             | Inventors to UTD, Inc.<br>027491/0845<br>UTD, Inc. to Raytheon UTD, Inc.<br>027493/0577<br>Raytheon UTD Inc. to Raytheon<br>Company 027515/0784 |
| 77 | RAY0084US2 | 17 Aug 2004 | 10/919271 |             | Inventors to UTD, Inc. 015739/0431<br>UTD, Inc. to Raytheon UTD, Inc.<br>018711/0727<br>Raytheon UTD Inc. to Raytheon<br>Company 027515/0784    |
| 78 | RAY0083US2 | 14 Dec 2005 | 11/302384 |             | Inventors to Raytheon UTD,<br>Incorporated 017724/0377<br>Raytheon UTD Inc. to Raytheon<br>Company 027515/0784                                  |
| 79 | RAY0130US  | 12 Aug 2008 | 12/190452 |             | Inventor to Raytheon UTD Inc.<br>021742/0011<br>Raytheon UTD Inc. to Raytheon<br>Company 027515/0784  |
| 80 | RAY0082US2 | 18 Dec 2006 | 11/640337 |             | Inventor to Raytheon UTD Inc.<br>019205/0906<br>Raytheon UTD Inc. to Raytheon<br>Company 027515/0784  |
| 81 | RAY0082USP | 26 Mar 2008 | 12/078069 |             | Inventor to Raytheon UTD Inc.<br>020771/0879<br>Raytheon UTD Inc. to Raytheon<br>Company 027515/0784  |
| 82 | RAY0089USD | 18 Oct 2010 | 12/906443 |             | Inventor to Raytheon UTD Inc.<br>027491/0512<br>Raytheon UTD Inc. to Raytheon<br>Company 027515/0784  |
| 83 | RAY0089US  | 18 Dec 2007 | 12/000879 |             | Inventor to Raytheon UTD Inc.<br>020315/0464<br>Raytheon UTD Inc. to Raytheon<br>Company 027515/0784  |
| 84 | RAY0152US  | 30 Jun 2010 | 12/827918 | 024715/0237 | Inventor to Raytheon Company  |
| 85 | RAY0088US  | 23 Mar 2010 | 12/729822 | 024124/0967 | Inventors to Raytheon Company   |
| 86 | RAY0087US  | 29 Mar 2010 | 12/748514 | 024150/0244 | Inventors to Raytheon Company   |

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|-----|------------|-------------|-----------|-------------|--|
| 87  | RAY0086US  | 01 Apr 2010 | 12/752703 |             | Inventors to Raytheon Company<br>024176/0432<br>Inventors to Raytheon Company<br>024882/0169 |
| 88  | RAY0085US  | 29 Mar 2010 | 12/748693 | 024750/0246 | Inventors to Raytheon Company  |
| 89  | RAY0081US  | 15 May 2002 | 10/147093 | 012918/0968 | Inventors to Raytheon Company  |
| 90  | RAY0080US  | 18 Apr 2005 | 11/108921 | 016832/0016 | Inventors to Raytheon Company  |
| 91  | RAY0079US  | 17 Oct 2003 | 10/688708 | 014626/0481 | Inventors to Raytheon Company  |
| 92  | RAY0078US  | 15 Dec 2003 | 10/736913 | 014809/0280 | Inventors to Raytheon Company  |
| 93  | RAY0077US  | 16 Apr 2003 | 10/417021 | 013979/0555 | Inventor to Raytheon Company   |
| 94  | RAY0076US  | 03 Dec 2004 | 11/003637 | 016067/0232 | Inventor to Raytheon Company   |
| 95  | RAY0075US  | 12 Oct 2005 | 11/248366 | 017096/0618 | Inventors to Raytheon Company  |
| 96  | RAY0074US  | 25 Sep 2002 | 10255415  | 013339/0263 | Inventors to Raytheon Company  |
| 97  | RAY0073US  | 14 Sep 2001 | 09/952835 | 012172/0976 | Inventors to Raytheon Company  |
| 98  | RAY0072US  | 16 Jul 2003 | 10/620884 | 014305/0237 | Inventors to Raytheon Company  |
| 99  | RAY0071US  | 16 Jul 2003 | 10/620888 |             | Inventor to Raytheon Company<br>014305/0244<br>Inventor to Raytheon Company<br>014305/0078   |
| 100 | RAY0070US  | 16 Feb 2005 | 11/059264 | 016284/0816 | Inventors to Raytheon Company  |
| 101 | RAY0069USP | 25 Apr 2008 | 12/149096 | 023769/0642 | Inventors to Raytheon Company  |
| 102 | RAY0069US  | 05 Jun 2006 | 11/446202 | 017962/0843 | Inventors to Raytheon Company  |
| 103 | RAY0068USD | 21 Jul 2011 | 13/136096 | 027491/0392 | Inventor to Raytheon Company   |
| 104 | RAY0068US  | 30 Nov 2007 | 11/998670 | 020998/0695 | Inventor to Raytheon Company   |
| 105 | RAY0067US  | 15 Jun 2007 | 11/818645 | 019490/0533 | Inventor to Raytheon Company   |
| 106 | RAY0066US  | 03 Oct 2007 | 11/906729 |             | Inventors to Raytheon Company<br>019970/0186<br>Inventors to Raytheon Company<br>023702/0286 |
| 107 | RAY0065US  | 08 Oct 2009 | 12/587502 | 023665/0943 | Inventors to Raytheon Company  |
| 108 | RAY0064US  | 23 Apr 2010 | 12/799399 |             | Inventors to Raytheon Company<br>024349/0268<br>Inventors to Raytheon Company<br>024469/0405 |
| 109 | RAY0063US  | 26 Jan 2010 | 12/657673 | 023890/0204 | Inventors to Raytheon Company  |
| 110 | RAY0061US  | 18 Feb 2010 | 12/658979 | 024162/0126 | Inventors to Raytheon Company  |
| 111 | RAY0062US  | 26 Feb 2010 | 12/660421 | 024054/0146 | Inventors to Raytheon Company  |
| 112 | RAY0060US  | 14 Feb 2006 | 11/353541 | 017885/0093 | Inventors to Raytheon Company  |
| 113 | RAY0059US  | 14 Oct 2009 | 12/579202 | 023372/0416 | Inventors to Raytheon Company  |
| 114 | RAY0058US2 | 27 Oct 2009 | 12/606462 | 023429/0715 | Inventors to Raytheon Company  |
| 115 | RAY0055US2 | 27 Feb 2009 | 12/394250 | 022322/0195 | Inventors to Raytheon Company  |
| 116 | RAY0054US  | 30 Oct 2007 | 11/980150 |             | Inventors to Raytheon Company<br>020293/0205<br>Inventors to Raytheon Company<br>021037/0408 |

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|-----|------------|-------------|-----------|-------------|--|
| 117 | RAY0052US  | 10 Jun 2004 | 10/866224 | 015465/0601 | Inventors to Raytheon Company<br>015465/0601 |
| 118 | RAY0186US  | 14 Jul 2006 | 11/486605 | 018108/0340 | INVENTORS TO RAYTHEON<br>COMPANY             |
| 119 | RAY0050US  | 16 May 2007 | 11/803741 | 019368/0593 | INVENTORS TO RAYTHEON<br>COMPANY             |
| 120 | RAY0049US  | 26 Feb 2009 | 12/393746 | 022318/0411 | INVENTOR TO RAYTHEON<br>COMPANY              |
| 121 | RAY0048US  | 15 Sep 2009 | 12/559971 | 023233/0343 | INVENTORS TO RAYTHEON<br>COMPANY             |
| 122 | RAY0047US2 | 22 Aug 2007 | 11/843266 | 019731/0654 | INVENTOR TO RAYTHEON<br>COMPANY              |


The undersigned hereby grants said practitioners the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office.

Assignee hereby further directs that all correspondence and telephone calls in connection with these patents and/or patent applications be addressed to the said

Customer No.: 18227  
Cantor Colburn LLP  
20 Church Street, 22<sup>nd</sup> Floor  
Hartford, CT 06103  
Telephone : 860-286-2929  
Facsimile: 860-286-0115

and that all patents and/or patent applications be associated with Customer No. 18227

The undersigned is authorized to act on behalf of the Assignee, RAYTHEON COMPANY

| SIGNATURE OF Applicant or Assignee of Record |   |           |                        |
|--|---|-----------|------------------------|
| Name & Title                                 | Sean F. Sullivan<br>Partner, Cantor Colburn LLP                                     |           |                        |
| Signature                                    |  |           |                        |
| Date   | 01/20/2012  | Telephone | 860-286-2929 ext. 1142 |

PTO/BB/80 (11-08)

Approved for use through 11/30/2011. OMB 0651-0038

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO**

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:



Practitioners associated with the Customer Number:

18227

OR



Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

| Name | Registration Number | Name | Registration Number |
|------|---------------------|------|---------------------|
|      |                     |      |                     |
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|      |                     |      |                     |
|      |                     |      |                     |

See attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:



The address associated with Customer Number:

18227

OR

|  |       |     |  |
|--|-------|-----|--|
| <input type="checkbox"/> Firm or Individual Name |       |     |  |
| Address  |       |     |  |
| City   | State | Zip |  |
| Country  |       |     |  |
| Telephone  | Email |     |  |


Assignee Name and Address:

Raytheon Company  
870 Winter Street  
Waltham, MA 02451-1449

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/BB/80 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

|           |   |           |                  |
|-----------|---|-----------|------------------|
| Signature |  | Date      | January 11, 2012 |
| Name      | Robert P. Hayer   | Telephone | 781.522.3050     |
| Title     | Chief Patent Counsel, Raytheon Company  |           |                  |

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.